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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/544,110	08/02/2005	Norbert Weber	48799	9437
1609 7590 06/05/2007 ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P. 1300 19TH STREET, N.W.			EXAMINER	
			HOOK, JAMES F	
SUITE 600 WASHINGTO	N,, DC 20036		ART UNIT	PAPER NUMBER
,	•		3754	
				
		·	MAIL DATE	DELIVERY MODE
			06/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/544,110	WEBER ET AL.
Office Action Summary	Examiner	Art Unit
	James F. Hook	3754
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1,704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MON ute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		·
1)⊠ Responsive to communication(s) filed on <u>02</u>	August 2005.	
	nis action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under	vance except for formal mat	
Disposition of Claims		
4) Claim(s) 1-7 is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.	·
Application Papers		
9) The specification is objected to by the Examir	ner.	·
10) The drawing(s) filed on is/are: a) ac	ccepted or b) objected to	by the Examiner.
Applicant may not request that any objection to th	ie drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the f	• =	•
Priority under 35 U.S.C. § 119		•
12) ☑ Acknowledgment is made of a claim for foreigna) ☑ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docume		§ 119(a)-(d) or (f).
2. Certified copies of the priority docume		application No
3. Copies of the certified copies of the pr		
application from the International Bure	au (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a list	st of the certified copies not	received.
·		•
Attachment(s)		
1) Notice of References Cited (PTO-892)		Summary (PTO-413)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/2/05. 		s)/Mail Date Informal Patent Application

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Yuda (WO 02/12731).

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Yuda (EP 1,308,634).

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Simmonds (FR 985.370).

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Rauh (DE 739,831).

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Taylor. The patent to Taylor discloses the recited piston type accumulator comprising a housing 11 in the form of a cylindrical tube having a separating piston 13 which separates two working chambers from each other, the piston may be moved in the axial direction within a piston stroke area of the cylindrical tube which is closed off at both ends by a closing component 12 one end of which is closed by shaping a reshaping area near reference number 14, the wall of the cylindrical tube adjoining the piston stroke area as an integral component of such wall is provided in the interior of the cylindrical tube at

the point of transition from the piston stroke area to the reshaping area with a stop element restricting the movement of the piston before the reshaping area is reached, the stop element is seen in the figure to be locked positively against axial movement by retaining surfaces present on the inside wall of the cylindrical tube as such is part of the wall therefore axial movement would be locked, where such is formed by a shoulder forming a recess in the inner wall below where the shoulder extends out, and the shaping of the wall of the closing component forms a second retaining portion in that such extends inward from the shoulder portion just above the shoulder.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by

Gratzmuller. The patent to Gratzmuller discloses the recited piston type accumulator comprising a housing 1 in the form of a cylindrical tube having a separating piston 13,6,2 which separates two working chambers from each other, the piston may be moved in the axial direction within a piston stroke area of the cylindrical tube which is closed off at both ends by a closing component 3 one end of which is closed by shaping a reshaping area near the top of the cylindrical tube, the wall of the cylindrical tube adjoining the piston stroke area as an integral component of such wall is provided in the interior of the cylindrical tube at the point of transition from the piston stroke area to the reshaping area with a stop element restricting the movement of the piston before the reshaping area is reached, the stop element is seen in the figure to be locked positively against axial movement by retaining surfaces present on the inside wall of the cylindrical tube as such is part of the wall therefore axial movement would be locked, where such is formed by a shoulder forming a recess in the inner wall below where the

shoulder extends out, and the shaping of the wall of the closing component forms a second retaining portion in that such extends inward from the shoulder portion just above the shoulder.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Michael. The patent to Michael discloses the recited piston type accumulator comprising a housing 13 in the form of a cylindrical tube having a separating piston 29 which separates two working chambers 28,31 from each other, the piston may be moved in the axial direction within a piston stroke area of the cylindrical tube which is closed off at both ends by a closing component near 17 one end of which is closed by shaping a reshaping area near the top of the cylindrical tube, the wall of the cylindrical tube adjoining the piston stroke area as an integral component of such wall is provided in the interior of the cylindrical tube at the point of transition from the piston stroke area to the reshaping area with a stop element restricting the movement of the piston before the reshaping area is reached, the stop element is seen in the figure to be locked positively against axial movement by retaining surfaces present on the inside wall of the cylindrical tube as such is part of the wall therefore axial movement would be locked, where such is formed by a shoulder forming a recess in the inner wall below where the shoulder extends out, and the shaping of the wall of the closing component forms a second retaining portion in that such extends inward from the shoulder portion just above the shoulder.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Bizak.

The patent to Bizak discloses the recited piston type accumulator comprising a housing

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10 in the form of a cylindrical tube having a separating piston 48 which separates two working chambers from each other, the piston may be moved in the axial direction within a piston stroke area of the cylindrical tube which is closed off at both ends by a closing component 15 one end of which is closed by shaping a reshaping area near the top of the cylindrical tube 28, the wall of the cylindrical tube adjoining the piston stroke area as an integral component of such wall is provided in the interior of the cylindrical tube at the point of transition from the piston stroke area to the reshaping area with a stop element restricting the movement of the piston before the reshaping area is reached, the stop element is seen in the figure to be locked positively against axial movement by retaining surfaces present on the inside wall of the cylindrical tube as such is part of the wall therefore axial movement would be locked and the end having the reshaping area, where such is formed by a shoulder forming a recess in the inner wall below where the shoulder extends out, and the shaping of the wall of the closing component forms a second retaining portion in that such extends inward from the shoulder portion just above the shoulder, the stop element is formed as a plate 46 provided with a hole in the center thereof, where the plate is level and can have a

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

crowned or convex surface extending toward the reshaping area.

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yudas (WO 02/12731) in view of Yost. The reference to Yudas discloses all of the recited structure with the exception of forming the stop element as a circular cross sectioned element that locks into the shoulder area to form a cambered partial surface of a seat for the annular element. The patent to Yost discloses that it is old and well known in the art to provide a cambered partial surface seat to receive a lock element 66 to retain the piston in a specific stroke area. It would have been obvious to modify the wall of Yudas to have a cambered partial surface seat to receive a circular cross sectioned element to retain the piston in a specific stroke area as suggested by Yost where such is an equivalent manner to restrain the movement of the piston as known in the art of accumulator structures and would be cheaper to manufacture than a plate like element thereby saving money.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yudas (EP 1,308,634) in view of Yost. The reference to Yudas discloses all of the recited structure with the exception of forming the stop element as a circular cross sectioned element that locks into the shoulder area to form a cambered partial surface of a seat for the annular element. The patent to Yost discloses that it is old and well known in the art to provide a cambered partial surface seat to receive a lock element 66' to retain the piston in a specific stroke area. It would have been obvious to modify the wall of Yudas to have a cambered partial surface seat to receive a circular cross sectioned element to retain the piston in a specific stroke area as suggested by Yost where such is an

equivalent manner to restrain the movement of the piston as known in the art of accumulator structures and would be cheaper to manufacture than a plate like element thereby saving money.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bizak in view of Yost. The reference to Bizak discloses all of the recited structure with the exception of forming the stop element as a circular cross sectioned element that locks into the shoulder area to form a cambered partial surface of a seat for the annular element. The patent to Yost discloses that it is old and well known in the art to provide a cambered partial surface seat to receive a lock element 66' to retain the piston in a specific stroke area. It would have been obvious to modify the wall of Bizak to have a cambered partial surface seat to receive a circular cross sectioned element to retain the piston in a specific stroke area as suggested by Yost where such is an equivalent manner to restrain the movement of the piston as known in the art of accumulator structures and would be cheaper to manufacture than a plate like element thereby saving money.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents to Rehbock, Bauer, Hertell, and Weber disclosing state of the art accumulator structures with moving pistons.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James F. Hook whose telephone number is (571) 272-4903. The examiner can normally be reached on Monday to Wednesday, work at home Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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JFH